<table>
<thead>
<tr>
<th>Test Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CANINE COMPREHENSIVE</strong></td>
<td></td>
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</tbody>
</table>
| **PROFILE**            | Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.  
Detection of antibodies to Babesia gibsoni, Babesia canis vogeli, Bartonella vinsonii subsp. berkoffi, Bartonella henselae, Bartonella koehlerae, Ehrlichia canis, and Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)  
Specimen(s): 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue. | **Species:** Canine  
**Price:** $197.50** |
| **CANINE SEROLOGY**    | Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus Detection of antibodies to Babesia gibsoni, Babesia canis vogeli, Bartonella vinsonii subsp. berkoffi, Bartonella henselae, Bartonella koehlerae, Ehrlichia canis, and Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)  
Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD | **Species:** Canine  
**Price:** $102.50** |
| **CANINE LEISHMANIA**  | Detection of Leishmania by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: L. infantum, L. donovoni, L. mexicana, among other Leishmania species. Detection of antibodies to Leishmania infantum by indirect immunofluorescent antibody test (IFA)  
Specimen(s): 1-2mL EDTA Whole Blood* AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue. | **Species:** Canine  
**Price:** $70.00**  
*Preferred sample type is EDTA Whole Blood enriched with peripheral lymph node aspirate. For suspected cases of cutaneous leishmaniasis skin scrapes or biopsies from skin lesions are also good tissues to provide for testing |
| **CANINE PCR PANEL**   | Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.  
Specimen: 1-2mL EDTA Whole Blood, 1-2mL Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue. | **Species:** Canine  
**Price:** $127.50** |
| **CANINE BABESIA**     | Detection of antibodies to Babesia gibsoni and Babesia canis vogeli by indirect immunofluorescent antibody test (IFA)  
Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD | **Species:** Canine  
**Price:** $42.50** |

**There is an additional $2.50 laboratory record fee applied to each order**
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<table>
<thead>
<tr>
<th>Species</th>
<th>Price</th>
<th>Detection of antibodies to Bartonella vinsonii subsp. berkhofti, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD</td>
<td>Species: Canine</td>
<td>Price: $52.50**</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Price</th>
<th>Detection of antibodies to Ehrlichia canis by indirect immunofluorescent antibody test (IFA)</th>
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</thead>
<tbody>
<tr>
<td>Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD</td>
<td>Species: Canine</td>
<td>Price: $22.50**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Price</th>
<th>Detection of antibodies to Leishmania infantum by indirect immunofluorescent antibody test (IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD</td>
<td>Species: Canine</td>
<td>Price: $22.50**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Price</th>
<th>Detection of antibodies to Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD</td>
<td>Species: Canine</td>
<td>Price: $22.50**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Detection of antibodies to Bartonella vinsonii, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen(s): 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.</td>
</tr>
</tbody>
</table>

*SNAP®4DX®plus test kit is designed to detect antibodies seroreactive to tick-borne diseases and uses a conjugate that is not species-specific (e.g. can bind to antibodies from animals other than dogs); however, it is licensed only for use in dogs. Several studies report using feline and equine sera with SNAP®4DX®plus to detect seroreactivity to Anaplasma spp, *Ehrlichia* spp, and *Borrelia burgdorferi* peptides. High false negative rates occur when using heartworm antigen tests in cats due to the smaller burden of adult worms and more male-only infections, which aren’t detectable by the SNAP 4Dx Plus test. Clinicians who choose to use tests not licensed for use in a particular animal, should do so with the understanding that the sera may not consistently react with small peptides validated for canine seroreactivity, potentially generating inaccurate results.

<table>
<thead>
<tr>
<th>Detection of antibodies to Bartonella vinsonii subsp berkhofti, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD</td>
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</tbody>
</table>
**FELINE PCR PANEL**

Detection of Babesia, *Cytauxzoon* (and other Apicomplexan pathogens), *Bartonella*, *Anaplasma*, *Ehrlichia*, *Rickettsia*, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

**Specimen:** 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.

**Species:** Feline

**Price:** $127.50**

**EQUINE PROFILE**

Detection of Babesia (and other Apicomplexan pathogens), *Bartonella*, *Anaplasma*, *Ehrlichia*, *Rickettsia*, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

**Specimen(s):** 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.

**Species:** Equine

**Price:** $127.50**

*SNAP®4DX® plus test kit is designed to detect antibodies seroreactive to tick-borne diseases and uses a conjugate that is not species-specific (e.g. can bind to antibodies from animals other than dogs); however, it is licensed only for use in dogs. Several studies report using feline and equine sera with SNAP®4DX®plus to detect seroreactivity to *Anaplasma* spp, *Ehrlichia* spp, and *Borrelia burgdorferi* peptides. Clinicians who choose to use tests not licensed for use in a particular animal, should do so with the understanding that the sera may not consistently react with small peptides validated for canine seroreactivity, potentially generating inaccurate results.

**RUMINANT PCR PANEL**

Detection of Babesia (and other Apicomplexan pathogens), *Bartonella*, *Anaplasma*, *Ehrlichia*, *Rickettsia*, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

**Specimen:** 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.

**Species:** Ruminant (cow, sheep, goat, buffalo, deer, elk, giraffe, camel, etc.)

**Price:** $127.50**

**EXOTIC PCR PANEL**

Detection of Babesia (and other Apicomplexan pathogens), *Bartonella*, *Anaplasma*, *Ehrlichia*, *Rickettsia*, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

**Specimen:** 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood

**Species:** Large (Non-Ruminant) or Small Animal Exotics

**Price:** $127.50**

**There is an additional $2.50 laboratory record fee applied to each order**
| **ANAPLASMA/EHRlichia PCR** | Detection of Anaplasma and Ehrlichia spp. by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Anaplasma phagocytophilum, Anaplasma platys, Ehrlichia canis, Ehrlichia chaffeensis, Ehrlichia ewingii, and Panola Mtn. Ehrlichia, among other Anaplasma/Ehrlichia species.  

**Specimen:** 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.  

**Species:** Any  
**Price:** $47.50** |
| **BABESIA PCR** | Detection of Babesia by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Babesia gibsoni, Babesia canis vogeli, Babesia coco, Babesia vulpes, and Babesia conradae, among other Babesia species. - This testing also includes broader testing that can detect other Apicomplexan pathogens such as Thileria, Cytauxzoon, etc.  

**Specimen:** 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.  

**Species:** Any  
**Price:** $47.50** |
| **BARTONELLA PCR** | Detection of Bartonella by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Bartonella henselae, Bartonella vinsonii, Bartonella clarridgeiae, Bartonella koehlerae, and Bartonella rochalimae, among other Bartonella species.  

**Specimen:** 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.  

**Species:** Any  
**Price:** $47.50** |
| **CYTAUXZOON PCR** | Detection of Cytauxzoon felis by real time PCR. This testing also includes broader testing that can detect other Apicomplexan pathogens such as Babesia felis, Novel Feline Babesia, etc.  

**Specimen:** 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.  

**Species:** Any*  
**Price:** $47.50**  

*Cytauxzoon PCR can be performed on any species of animal, but C. felis is typically found in domestic cats, bobcats, and other felids |
| **HEMOTROPIC MYCOPLASMA PCR** | Detection of Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Mycoplasma haemofelis, Mycoplasma haemocanis, Mycoplasma haemominutum, Mycoplasma haematoparvum, and Mycoplasma turicensis among other Hemotropic Mycoplasma species.  

**Specimen:** 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.  

**Species:** Any  
**Price:** $47.50** |

**There is an additional $2.50 laboratory record fee applied to each order**
LEISHMANIA PCR  
Detection of Leishmania by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: *L. infantum*, *L. donovoni*, *L. mexicana*, among other Leishmania species.

**Specimen:** 1-2mL EDTA Whole Blood*, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.

*Preferred sample type is EDTA Whole Blood enriched with peripheral LNA. For suspected cases of cutaneous leishmaniasis skin scrapes or biopsies from skin lesions can also be good tissues to provide for testing.

RICKETTSIA PCR  
Detection of Rickettsia by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: *Rickettsia rickettsii*, *Rickettsia felis*, *Rickettsia typhi*, among other spotted fever group and typhus group rickettsias.

**Specimen:** 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of $75.00 for manual DNA extraction from tissue.

SNAP4Dx PLUS  
Detection of *Anaplasma (ab)*, *Ehrlichia (ab)*, *Lyme (ab)*, and *Heartworm (antigen)* by SNAP®4Dx® Plus.

**Specimen:** 1 mL Serum; (EDTA Whole Blood or Plasma can be used as an alternate sample source)

*SNAP®4Dx®plus test kit is designed to detect antibodies seroreactive to tick-borne diseases and uses a conjugate that is not species-specific (e.g. can bind to antibodies from animals other than dogs); however, it is licensed only for use in dogs. Several studies report using feline and equine sera with SNAP®4Dx®plus to detect seroreactivity to *Anaplasma* spp, *Ehrlichia* spp, and *Borrelia burgdorferi* peptides. Clinicians who choose to use tests not licensed for use in a particular animal, should do so with the understanding that the sera may not consistently react with small peptides validated for canine seroreactivity, potentially generating inaccurate results.

ADD-ON STAT PCR FEE  
Add-on fee for STAT PCR for an individual PCR test or part of a panel or profile. Results are returned within 2 working days and result receipt is confirmed by phone. There is a $50 fee for each individual PCR run as a STAT.

**Price:** $50.00 per Test

ADD-ON TISSUE EXTRACTION FEE  
Add-on fee for processing of fresh, frozen, or parafin fixed tissues for manual DNA extraction. In cases where multiple sample types are pooled together and treated as a single sample then only one tissue extraction fee is needed.

**Price:** $75.00 per Sample

ADD-ON PAIRED CONVALESCENT TITER FEE  
Add-on fee for running paired acute and convalescent titers. The original acute sample is located and rerun alongside the newly-submitted sample. Running the acute and convalescent titers together provides a more accurate result comparison. There is a $20 fee for each IFA test run as a paired acute/convalescent titer.

**Price:** $20.00 per Test

**There is an additional $2.50 laboratory record fee applied to each order.**